

3 0455 0001 1363 9

BLM - ALASKA RESOURCES LIBRARY  
QH301.C23 no.184  
Freshwater fishes of Canada

W.B. Scott \* E.J. Crossman

# FRESHWATER FISHES OF CANADA

ARLIS Interlibrary Loan

ILL# 148034126

Title Freshwater Fishes of Canada

Author Scott, W.B., and E.J. Crossman

Call # SH223.A344 no.184

Patron Cindi Godsey

Due 6/25/2015

RLA Trans. #: 115643

Loaned To: ESA - Interlibrary Loans

Return To:

Alaska Resources Library & Information Services

Library Building, Suite 111

3211 Providence Drive

Anchorage, AK 99508

Bulletin 184

Fisheries Research Board of Canada, Ottawa 1973



Environment Canada  
Fisheries  
and Marine Service

Environnement Canada  
Service des pêches  
et des sciences de la mer





Merged With  
A.R.L.I.S.  
ANCHORAGE, ALASKA  
Est. 1997

41  
223  
A344  
no. 184

# FRESHWATER FISHES OF CANADA

W. B. SCOTT • E. J. CROSSMAN

Department of Ichthyology and Herpetology

Royal Ontario Museum, Toronto

BULLETIN 184

Fisheries Research Board of Canada, Ottawa 1973

Frontispiece: Lake Whitefishes



Q4  
301  
303

Bulletins of the Fisheries Research Board of Canada are designed to assess and interpret current knowledge in scientific fields pertinent to Canadian fisheries.

The Board also publishes the *Journal of the Fisheries Research Board of Canada* in annual volumes of monthly issues, an *Annual Report*, and a biennial *Review* of investigations. The *Journal* and *Bulletins* are for sale by Information Canada, Ottawa. Remittances must be in advance, payable in Canadian funds to the order of the Receiver General of Canada. Publications may be consulted at Board establishments located at Ottawa; Nanaimo, Vancouver and West Vancouver, B.C.; Winnipeg, Man.; Ste. Anne de Bellevue, Que.; St. Andrews, N.B.; Halifax and Dartmouth, N.S.; and St. John's, Nfld.

---

|  |                             |
|--|-----------------------------|
| <i>Editor and<br/>Director of Scientific<br/>Information</i> | J. C. STEVENSON, PH.D.      |
| <i>Deputy Editor</i>   | J. WATSON, PH.D.            |
| <i>Associate Editor</i>                                      | L. W. BILLINGSLEY, PH.D.    |
| <i>Assistant Editor</i>                                      | R. H. WIGMORE, M.SC.        |
| <i>Production/Documentation</i>                              | J. CAMP/MONA SMITH, B.H.SC. |

*Department of the Environment  
Fisheries Research Board of Canada  
Office of the Editor, 116 Lisgar Street  
Ottawa, Canada  
K1A 0H3*



Bulletins of the Fisheries Research Board of Canada are designed to assess and interpret current knowledge in scientific fields pertinent to Canadian fisheries.

The Board also publishes the *Journal of the Fisheries Research Board of Canada* in annual volumes of monthly issues, an *Annual Report*, and a biennial *Review* of investigations. The *Journal* and *Bulletins* are for sale by Information Canada, Ottawa. Remittances must be in advance, payable in Canadian funds to the order of the Receiver General of Canada. Publications may be consulted at Board establishments located at Ottawa; Nanaimo, Vancouver and West Vancouver, B.C.; Winnipeg, Man.; Ste. Anne de Bellevue, Que.; St. Andrews, N.B.; Halifax and Dartmouth, N.S.; and St. John's, Nfld.

*Editor and  
Director of Scientific  
Information* J. C. STEVENSON, PH.D.

*Deputy Editor* J. WATSON, PH.D.

*Associate Editor* L. W. BILLINGSLEY, PH.D.

*Assistant Editor* R. H. WIGMORE, M.SC.

*Production/Documentation* J. CAMP/MONA SMITH, B.H.SC.

*Department of the Environment  
Fisheries Research Board of Canada  
Office of the Editor, 116 Lisgar Street  
Ottawa, Canada  
K1A 0H3*

## Contents

xi EDITOR'S FOREWORD

### BACKGROUND INFORMATION

1 Introduction

2 Acknowledgments

4 Canada and Its Fish Fauna

11 Some Important Publications on the Canadian Fish Fauna

15 Instructions on Preparing and Forwarding Specimens for Identification

16 Outline of a Species Account

20 SKETCHES OF ANATOMICAL FEATURES

29 KEY TO THE FAMILIES OF FISHES OCCURRING IN THE FRESH WATERS OF CANADA

### SPECIES ACCOUNTS

36 Lampreys — Petromyzontidae

78 Sturgeons — Acipenseridae

101 Gars — Lepisosteidae

111 Bowfin — Amiidae

117 Herrings — Clupeidae

138 Salmons, trouts, whitefishes, graylings — Salmonidae

306 Smelts — Osmeridae

326 Mooneyes — Hiodontidae

337 Mudminnows — Umbridae

346 Pikes — Esocidae

376 Minnows — Cyprinidae

523 Suckers — Catostomidae



## Contents (concluded)

|     |   |
|-----|---|
| 630 | Killifishes — Cyprinodontidae                           |
| 640 | Cods — Gadidae  |
| 651 | Silversides — Atherinidae                               |
| 656 | Sticklebacks — Gasterosteidae                           |
| 677 | Trout-perches — Percopsidae                             |
| 683 | Temperate basses — Percichthyidae                       |
| 699 | Sunfishes — Centrarchidae                               |
| 751 | Perches — Percidae                                      |
| 811 | Drums — Sciaenidae                                      |
| 817 | Sculpins — Cottidae                                     |
| 850 | GLOSSARY  |
| 861 | INFORMATION ON SPECIMENS USED FOR SPECIES ILLUSTRATIONS |
| 869 | REFERENCES  |
| 922 | INDEX   |

### Colour Plates

|               |           |  |
|---------------|-----------|--|
|               | Plate I   | <i>frontispiece</i>  |
| <i>facing</i> |           |  |
| 90            | Plate II  | Lake sturgeon<br>Blackfin cisco<br>Deepwater sculpin                                 |
| 218           | Plate III | Lake trout<br>Brook trout<br>Arctic char   |
| 250           | Plate IV  | Northern redbelly dace<br>Northern redbelly dace<br>Finescale dace<br>Finescale dace |
| 442           | Plate V   | Bluegill<br>Common shiner  |
| 730           | Plate VI  | Yellow perch<br>Rainbow darter<br>Smallmouth bass<br>Largemouth bass                 |